

Fig. 8

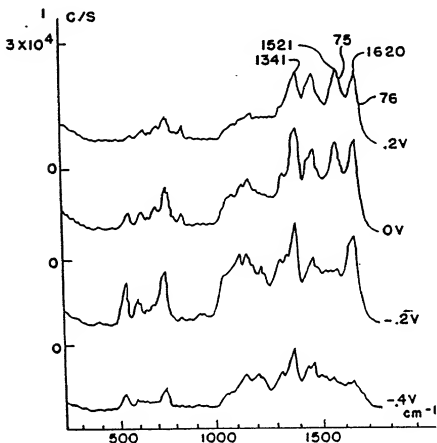
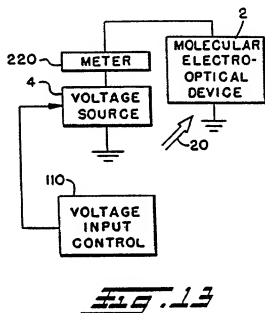
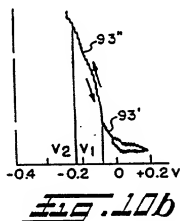
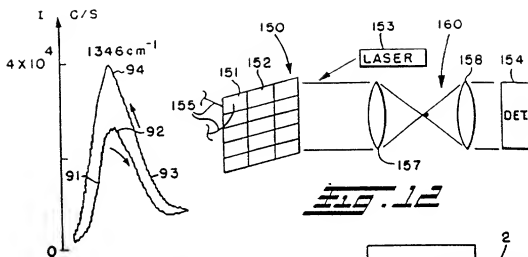


Fig. 9



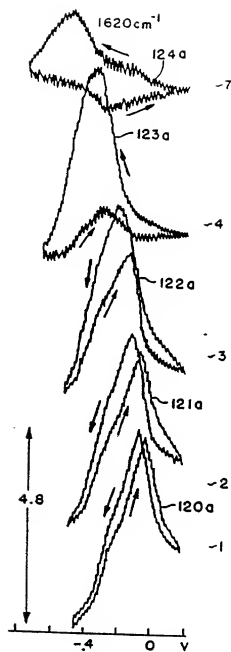


Fig. 11a

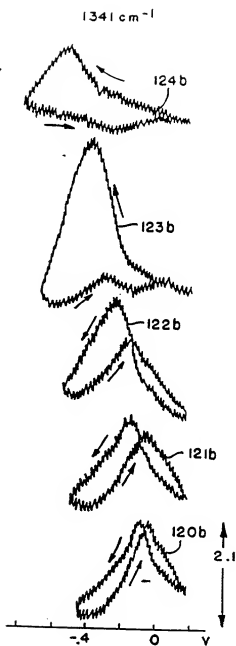


Fig. 11b

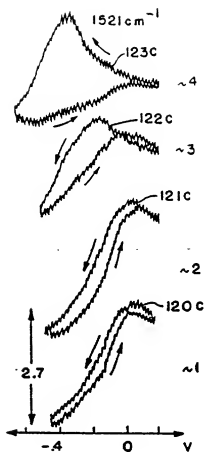


Fig. 11c

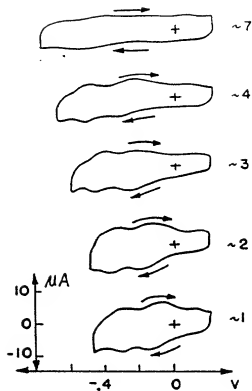


Fig. 11d

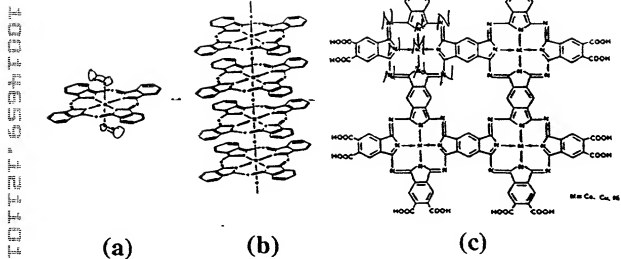


FIG. 14

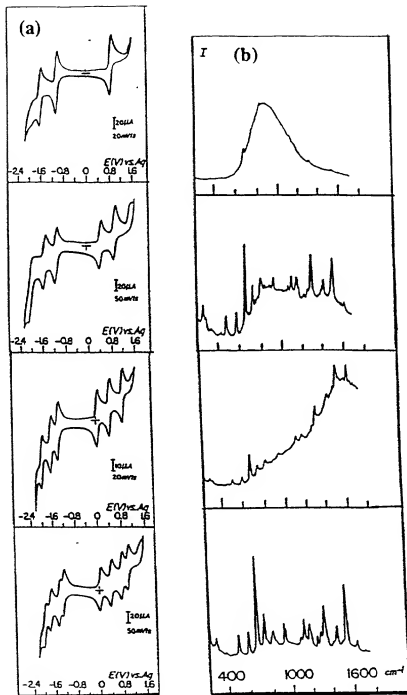
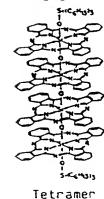
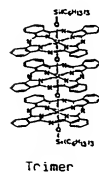
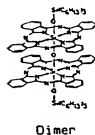
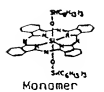


FIG. 15

Electro-optical properties of oxygen bridged $(O-Si-Pc)_n$ for $n=1, 2, 3$ and 4. (Middle) Cyclic voltammograms obtained from $10^{-3}M$ $(O-Si-Pc)_n$ in $0.1M$ tetra-*n*-butylammonium perchlorate in CH_2Cl_2 adsorbed on a platinum electrode and (Right) depolarized resonant surface-enhanced Raman spectra obtained from $(O-Si-Pc)_n$ adsorbed on a silver electrode at 0 V versus SCE. Laser excitation at 632.8 nm and 20 mW output power. The electrolyte is $0.05M$ Na_2SO_4 saturated with argon gas.

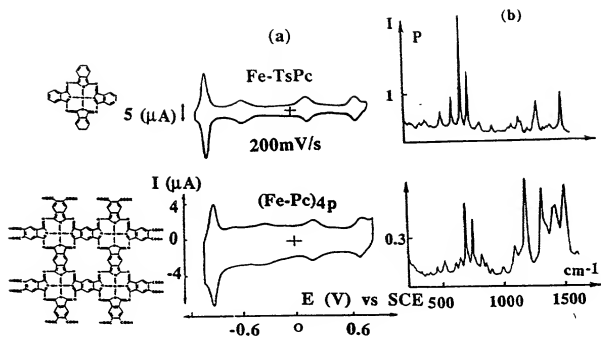


FIG. 16

Electro-optical properties of Fe-TsPc monomer and polymeric sheet (Fe-Pc)_{4p}: (a) Cyclic voltammograms; (b) surface-enhanced resonant Raman spectra. Laser excitation at 632.8 nm with 20 mW output power.

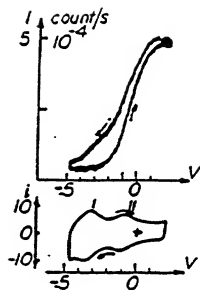


FIG. 17

A curve representing the pulse code firing rate of a neuron obtained from Fe-TsPc adsorbed on a silver electrode.

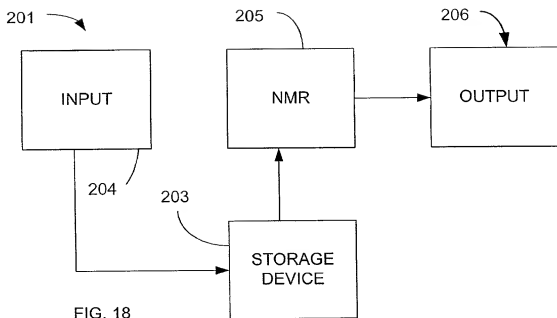


FIG. 18

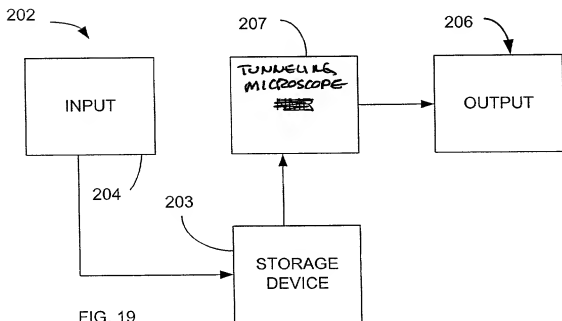


FIG. 19